MainConcept MV-HEVC SDK

Stereoscopic content creation for the Apple Vision Pro

As the availability of extended reality devices increases, so does the need for content. The Apple Vision Pro provides a revolutionary immersive entertainment experience never seen before. Services including Disney+, Discovery+, Amazon Prime Video, Paramount+, and of course Apple TV+, released a selection of stereoscopic programming that shows the capabilities of the Apple Vision Pro.

More content is needed to help this new media segment take off. MV-HEVC defines the tools required for creators who can produce and deliver the content.

THE REVIVAL OF 3D MOVIES

To enjoy content in 3D on the Apple Vision Pro, the streams need to be encoded in Multiview HEVC (MV-HEVC) which is an extension to the HEVC/H.265 standard (ISO/IEC 23008-2). The standard defines encoding of stereoscopic views of a scene within a single video stream to guarantee seamless playback on a device. That content is also backward compatible with the regular HEVC/H.265 base layer for 2D viewing.

MAINCONCEPT REAL-TIME PROCESSING FOR THE NEXT-GEN XR EXPERIENCE

The MainConcept MV-HEVC Encoder SDK is fully compliant with Apple's HEVC Stereo Video profile. The ready-to-use MV-HEVC Main 10 encoding preset of our library supports extended resolutions for immersive multiview processing. In combination with MainConcept's MP4 multiplexing and HLS packaging including playlist generation, users can develop solutions featuring MV-HEVC content creation for seamless playback on the Apple Vision Pro.

THE NEXT-GEN XR EXPERIENCE

APPLE VISION PRO COMPLIANCE

MV-HEVC Encoder SDK libraries based on the official extension ISO/IEC 23008-2 of the HEVC/H.265 standard are fully compliant offering stereoscopic playback on the Apple Vision Pro.

A NEW WAY OF IMMERSIVE ENTERTAINMENT

Many leading streaming services already offer content for the Apple Vision Pro. Several vendors already released or announced professional cameras shooting stereoscopic video.

ONE-STOP WORKFLOW OFFERING

MainConcept offers all libraries that are required to generate MV-HEVC content like video and audio encoder, MP4 muxer and packager for creating HLS compliant streams.

KEY FEATURES

- Encode MV-HEVC and multiplex to MP4/MPV containers for playing back 3D content on the Apple Vision Pro
- Fully compliant with the Apple Vision Pro spatial computer
- Encoding of stereoscopic views of a scene within a single video stream
- Ready-to-use MV-HEVC Main 10 encoding profile
- Multi-platform support using the same API
- On-premise or cloud deployment

OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

SYSTEM REQUIREMENTS

	x86	Arm
Windows	Windows 10, Windows 11	Windows 11 Arm
Linux	Ubuntu 20.04 LTS – 22.04 LTS, Rocky Linux 8.9	Ubuntu 20.04 LTS – 22.04 LTS
macOS	macOS 10.15 – 12.x	macOS 11.x – 12.x

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ENCODER FEATURES

- Complete SDK with all libraries required for MV-HEVC content creation

- Multi-view HEVC as an extension to the HEVC standard (ISO/IEC 23008-2)

- Fully compliant with the Apple Vision Pro spatial computer

- Encoding of stereoscopic views of a scene within a single video stream

- Ready-to-use MV-HEVC Main 10 encoding profile

- Backward compatible with standard HEVC/H.265 base layer

- HDR signaling

- MP4 multiplexing

- AAC encoding

- HLS output & playlist generation*

- Same API for multi-platform Windows, macOS and Linux, for on-premise servers and cloud

* Optional feature

ABOUT MAINCONCEPT

MainConcept provides audio and video codec solutions that fuel creativity and business across the globe—from professional video production, multimedia, broadcast, digital signage, and gaming to the medical and security verticals. Our software development kits, transcoding applications and plugins deliver the simplicity you need with the customer experience you deserve. Since 1993, MainConcept codecs have been used by hundreds of organizations including Adobe, Autodesk, Corel, Dalet, Encoding.com, Endeavor Streaming, Grass Valley, Intel, MAGIX, Nikon, PlayBox Neo, Soliton and Wowza. For more information, visit www.mainconcept.com.

PACKAGES

- **HEVC/H.265 Encoder SDK**
  HEVC encoder (including MainConcept EVA) with supported multiplexers and audio encoders

- **MV-HEVC for HEVC Encoder**
  HEVC/H.265 Encoder SDK, plus Multiview HEVC Encoder license.

- **OTT Content Creation SDK**
  Combined with the MainConcept HEVC/H.265 Encoder SDK with MV-HEVC feature licensing to generate files for HLS streaming to the Apple Vision Pro.